



Az Intel® Xeon® processzor sorozat

Gacsal József Üzletfejlesztési igazgató Intel Hungary





Intel® Xeon® processzor 5500 sorozat

(Nehalem-EP)

Egy nagy lépés:

- Új processzor architektúra
- Új platform architektúra
- Új memória alrendszer
- Új I/O alrendszer
- Új lehetőségek SSD-vel



És még nagyobb lépések:

Teljesítmény

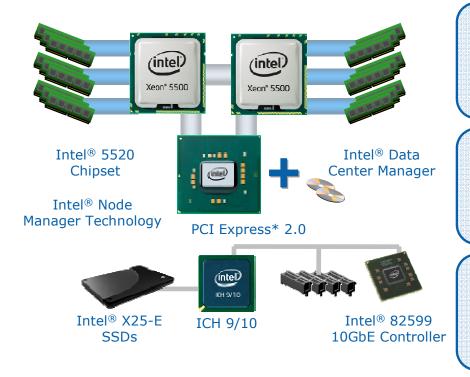
Energia hatékonyság

Virtualizáció



Az intelligens teljesítmény

Next Generation Intel® Microarchitecture



Sávszélesség igényes

- Intel® QuickPath Technology
- Integrált memória vezérlő

Többszálú alkalmazások

- 45nm quad-core Intel[®] Xeon[®] processzorok
- Intel® Hyper-threading technológia

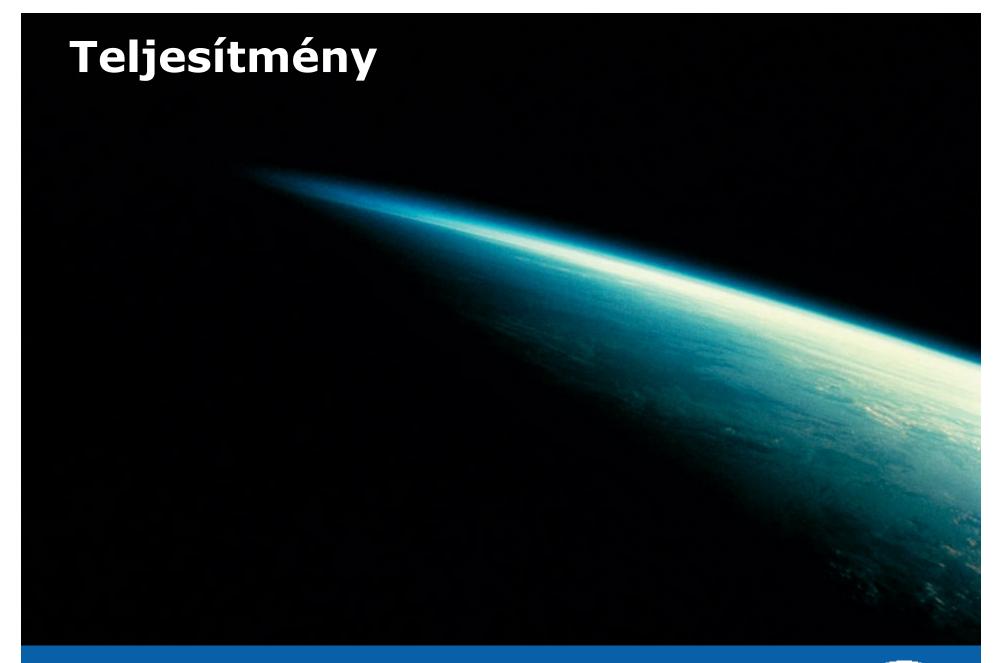
Teljesítmény igény szerint

- Intel® Turbo Boost technológia
- Intel® Intelligent Power technológia

A szoftver környezethez igazodó teljesítmény

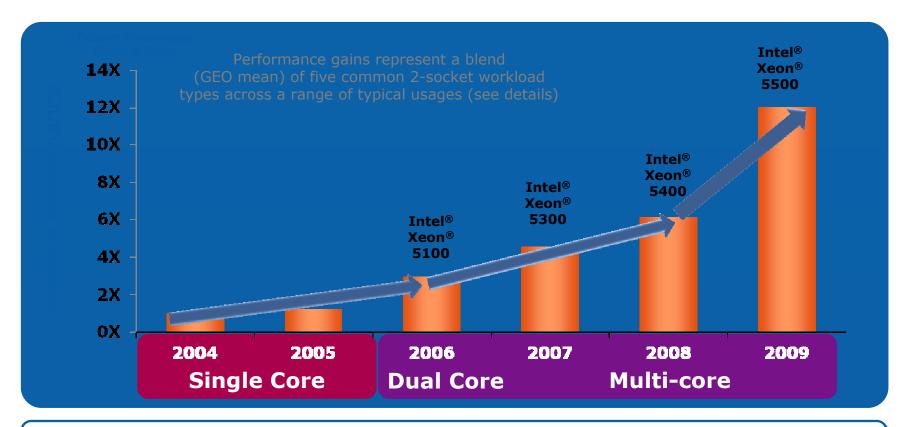
All future products, dates, and figures are preliminary and are subject to change without any notice.







Intel® Xeon® Processor 2S Performance



Compelling Performance Gains; Enables Unprecedented Opportunities For Business

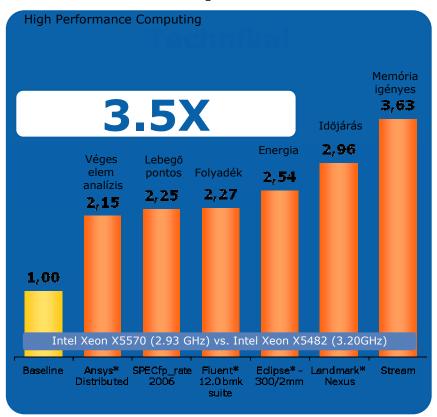
Source: Published/submitted/measured results March 30, 2009. Each bar represents the geo mean of published results on five industry standard benchmarks – SPECint_rate, SPECfp_rate, SPECjbb2005, TPC-C and SAP-SD.

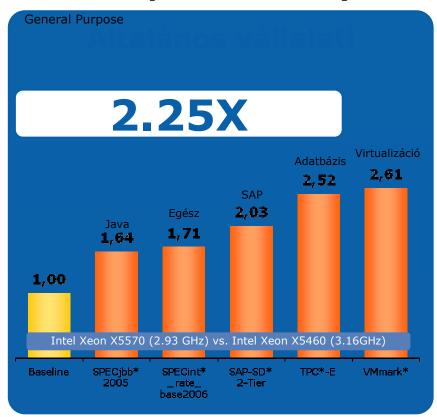
Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in systems of software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing Fources performance tests and on the performance of Intel products, visit http://www.intel.com/performance/resources/limits.htm Copyright © 2009, Intel Corporation. * Other names and brands may be claimed as the performance of Intel products of Intel Produ

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Teljesítmény

Intel® Xeon® processzor 5500 sorozat (Nehalem-EP)





Nagy teljesítmény minden területen

Source: Published/submitted/approved results March 30, 2009. See backup for additional details

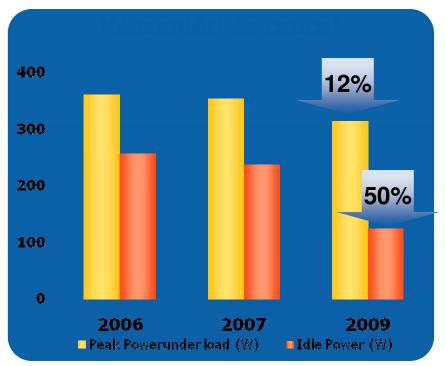


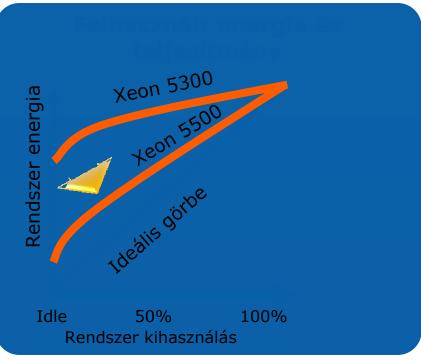
Energiahatékonyság



Energiahatékonyság

- 2.25x teljesítmény, hasonló energiafelvétellel[†]
- Alacsonyabb készenléti energiafelvétel
- Magok dinamikus ki/be kapcsolása a teljesítményigénynek megfelelően





† Source: Intel internal measurements using SPECjbb2005* as of Aug 2007. System configurations: 2S, 80W processors, 8 DIMMs, 1 HDD, 1 PSU. Except Irwindale=110W processors; Power measurements using SPECjbb2005. Tylersburg-EP from Intel internal measurements as of Sept 2008 with 2.93GHz 95W processors. This information is preliminary and subject to change before launch. For more information, see legal information slide at end of this presentation.

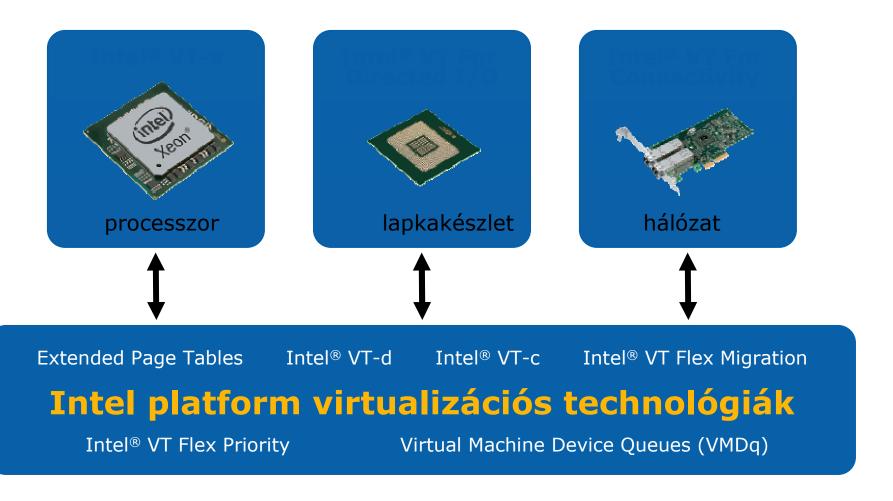






Intel® Xeon® 5500 sorozat:

Az első teljesen virtualizált hardver platform









Energiahatékony frissítés

(Ugyanakkora teljesítmény)





ROI

kevesebb kiszolgáló

kevesebb energia éves szinten

Source: Intel estimates as of Nov 2008. Performance comparison using SPECjbb2005 bops (business operations per second). Results have been estimated based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance. For detailed calculations, configurations and assumptions refer to the legal information slide in backup.



Frissítési előnyök





energiaköltség megtakarítás

Source: Intel estimates as of Nov 2008. Performance comparison using SPECjbb2005 bops (business operations per second). Results have been estimated based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance. For detailed calculations, configurations and assumptions refer to the legal information slide in backup.

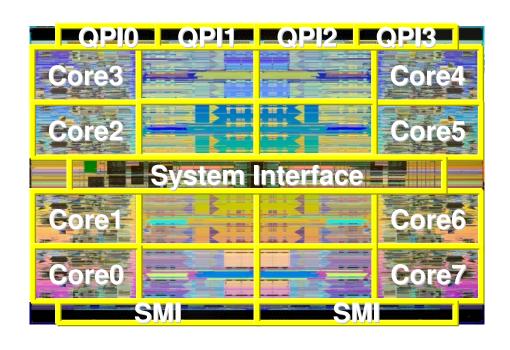
21 Intel® Xeon®

5500 alapú kiszolgáló-



Xeon MP 2009-2010

Nehalem-EX Overview



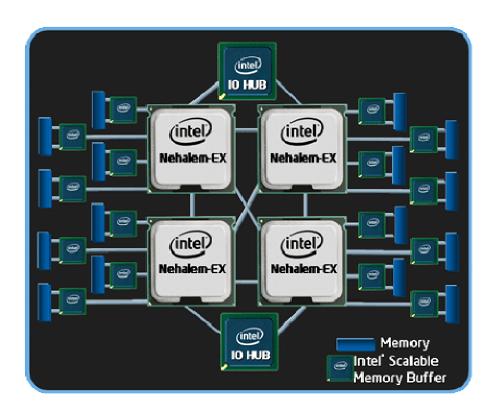
- Up to 8 Cores/16 Threads
- 24MB of Shared Cache
- Integrated Memory Controllers
- 4 High-bandwidth QPI Links
- Intel® Hyper-Threading
- Intel® Turbo Boost
- 2.3B Transistors

The Next Generation Intelligent Expandable Platform





Nehalem-EX: Leadership 4-socket Platform



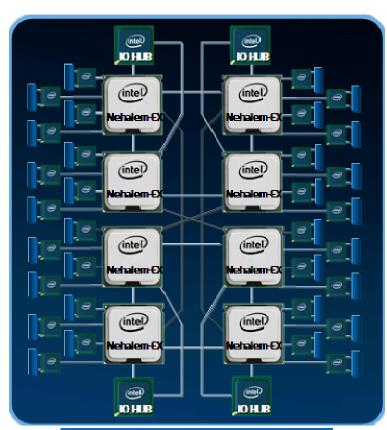
- 4 Sockets / 64 Threads
- Intel® Scalable Memory Interconnect with Buffers
- 2X Memory Capacity
 - 16 DIMMs per Socket
 - 64 DIMMs per platform
- Advanced Virtualization& I/O Technologies

Unmatched Enterprise, Virtualization, and HPC Solutions





Nehalem-EX: 8-Sockets and Above



Memory
Intel® Scalable Memory Buffer

- Intel Architecture capable of QPI connected 8-Sockets / 128 threads
- Scalable systems and >8-socket capability with OEM node controllers
- Scalable performance through modularity
- Leadership RAS with MCA recovery
- Targeting High-End Enterprise Apps and Large Scale Consolidation









Az IBM és az Intel

The partnership between IBM System x[®] and BladeCenter[®] and Intel helps to deliver a dynamic infrastructure with...

- Higher performance
- Improved energy efficiency
- Increased virtualization capabilities
- Simplified management

For more information go to www.ibm.com/systems/x/newgeneration





HS20 szerverek lecserélése a meglévő BladeCenter E házban Közel 90% energia megtakarítás





156 HS20 BladeCenter blades (Xeon)

12 BladeCenter E Chassis

1.86 racks

14 HS22 BladeCenter blades (Xeon 5570)

1 BladeCenter E Chassis

0.17 of a rack



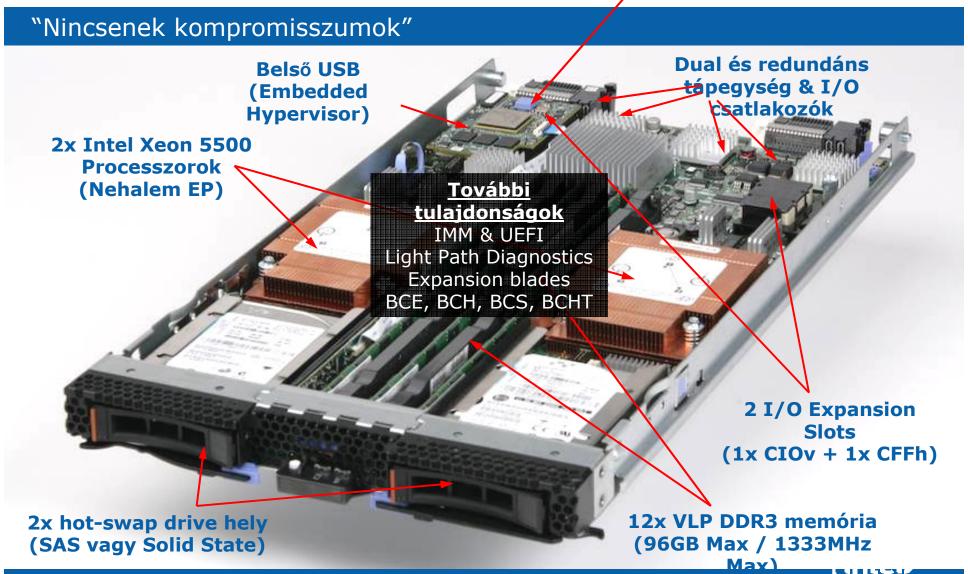


- ✓ Ugyanaz, vagy nagyobb teljesítmény
- ✓ A meglévő keret és switchek segítségével
- ✓ Tápegység, és management module upgrade-del
- ✓ Jobb, mint 11:1 konszolidációs érték



HS22 Hardware áttekintés

Opcionális RAID 5 w/ battery-backed/write-back cache



Köszönöm a figyelmet!

www.intel.com

